

Decision Document

**Solid Waste Management Unit I05
33 – 16 Landfill
Hawthorne Army Depot
Hawthorne, Nevada**



Hawthorne Army
Depot



September 1999

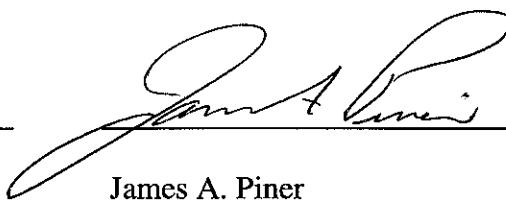
Decision Document SWMU I-05

September 1999

The selected remedy is protective of human health and the environment. It has been shown that a complete pathway to human health and the environment does not exist, and there is no potential for an exposure pathway to be completed in the future.

U. S. Army

21 OCT 1999



James A. Piner
Lieutenant Colonel, U.S. Army

State of Nevada

22 Nov 99



Paul Liebendorfer
Chief, Bureau of Federal Facilities

Decision Document

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Hawthorne, Nevada**



Hawthorne Army
Depot



September 1999

**Decision Document
SWMU I-05, 33-16 Landfill
Hawthorne Army Depot
Hawthorne, Nevada**

1.0 Introduction

This decision document describes the rationale for the proposed closure of SWMU I-05, the 33-16 landfill, at the Hawthorne Army Depot (HWAD), Hawthorne, Nevada. This document is prepared by the U.S. Army Corps of Engineers, Sacramento District, with the help of HWAD and the Nevada Department of Environmental Protection (NDEP).

Tetra Tech, Inc. (Tt), was tasked by the US Army Corps of Engineers, Sacramento District (USACE), to perform remedial investigations and ground water monitoring at the Hawthorne Army Depot (HWAD), Hawthorne, Nevada. These tasks were conducted from 1993 through 1997, primarily at solid waste management units (SWMUs) designated by the Army and the Nevada Division of Environmental Protection (NDEP). The NDEP is the lead regulatory agency for environmental issues at HWAD. The purpose of the sampling was to determine the extent and degree of environmental impacts, if any, associated with activities performed at each SWMU. The primary goal of the investigation was to assess the environmental impacts at each SWMU and to report the findings, present conclusions, and recommend any remediation, if necessary.

With guidance from the NDEP, basewide proposed closure goals (PCGs) for soil were established as acceptable levels so that SWMU closure could be recommended and to assist in directing the investigative efforts toward those SWMUs where the target analytes were of greatest concern. These PCGs were used as action levels throughout this investigation and are used for comparison with the detected analytes in this report (Appendix B).

2.0 Site History

SWMU I-05 is in the 33 Magazine Group and is adjacent to the personnel bunker northwest of magazine 33ATX16 (Figure 1-1). SWMU I05 was a suspected landfill area approximately 200 feet long and 50 feet wide. This area is a shallow sloped depression that drains to the northeast toward Fifth Avenue South (Figure 1-2). The USACE, HWAD, and the NDEP agreed to define the boundaries of each SWMU using annotated monuments and survey pins. A brass survey pin on the monument designates the monument number HWAAP-34-1996 and the SWMU number I05. Two corner pins were set and surveyed to define the SWMU boundary, with the monument as the north corner. The survey data for SWMU I05 is presented in Appendix A.

3.0 SITE CONDITIONS

Using the calculated ground water elevations from the basewide network of monitoring wells; the depth to the shallowest ground water at this SWMU is interpolated to be approximately 500 feet below the ground surface (bgs), with a projected ground water gradient direction estimated to be toward the northwest. During Tt's site inspections of SWMU I05, the ground surface was observed to be primarily gravelly and sandy silt that was sparsely vegetated with desert scrub grass and tumbleweeds. No evidence of staining or indications of disposal activities were observed. A wooden personnel bunker was noted along the southern boundary of the SWMU near magazine 33ATX16. The USACE's 1993 Installation Action Plan included petroleum hydrocarbons and acids as chemicals of concern (USACE 1993). These target analytes were included for this SWMU because smoke-screening devices were reportedly stored in the south magazine area. These smoke devices contained hazardous chemicals such as chlorosulfonic acid, zinc oxide, aluminum, titanium trichloride, and hexachloroethane. Interviews with HWAD personnel in April 1994 indicated that neither petroleum hydrocarbons nor smoke devices have been disposed of at SWMU I05. In 1986, one live round was reportedly found at SWMU I05; therefore, unexploded ordnance (UXO) was potentially present at this SWMU. Based on the types of munitions and chemicals that were reportedly stored in the south magazine that may have been disposed of at SWMU I05, the target analytes for investigations of this SWMU were metals, explosives, and total petroleum hydrocarbons (TPH). A pH analyses of the soils also were conducted because of the acidic chemicals in the smoking devices.

4.0 Investigations

Jacobs Engineering conducted a site inspection of this SWMU in 1988 (Jacobs 1988) and Resource Application, Inc. (RAI), conducted a site inspection of SWMU I05 in 1992 (RAI 1992). Tt conducted UXO surveys and geophysical surveys for field reconnaissance in 1994 and subsurface soil sampling to assess the geophysical anomalies in 1997. During these inspections, no evidence of waste disposal was found. Although SWMU I05 is described as a landfill, Tt was unable to document any waste disposal activities at this SWMU.

5.0 Investigation Results

During Tt's 1997 remedial investigations of SWMU I05, seven subsurface soil samples indicated concentrations of aluminum, arsenic, barium, beryllium, cadmium, total chromium, and lead at concentrations less than their respective maximum expected background concentrations; and less than their respective PCGs. Therefore, the metals in the soils at this SWMU appear to be ubiquitously distributed at naturally occurring concentrations. No other target analytes were found in any of the subsurface soil samples collected at SWMU I05; therefore, there does not appear to have been releases of these target analytes at this SWMU. Appendix C shows the analysis results from these investigations.

6.0 Remediation

No remediation action was required for this site

7.0 Remediation Results

Not applicable

8.0 Public Involvement

It is the U.S. Department of Defense and Army policy to involve the local community throughout the investigation process at an installation. To initiate this involvement, HWAD has established and maintains a repository library at the local public library. This repository includes final copies of all past studies and other documents regarding environmental issues at HWAD. As future environmental documents are made available to HWAD the repository shall be updated. HWAD has solicited community participation in establishment of a restoration and advisory board (RAB). To date there has been insufficient response and HWAD has not formed a RAB. HWAD has held open houses to inform the public of on going environmental issues. HWAD continues to solicit community involvement, and will establish a RAB should sufficient community interest be obtained.

9.0 Conclusions and Recommendations

Since there is no evidence of disposal activities at SWMU I05, and no target analytes were found at elevated concentrations, this SWMU should be recommended to the NDEP for site closure without land restrictions.

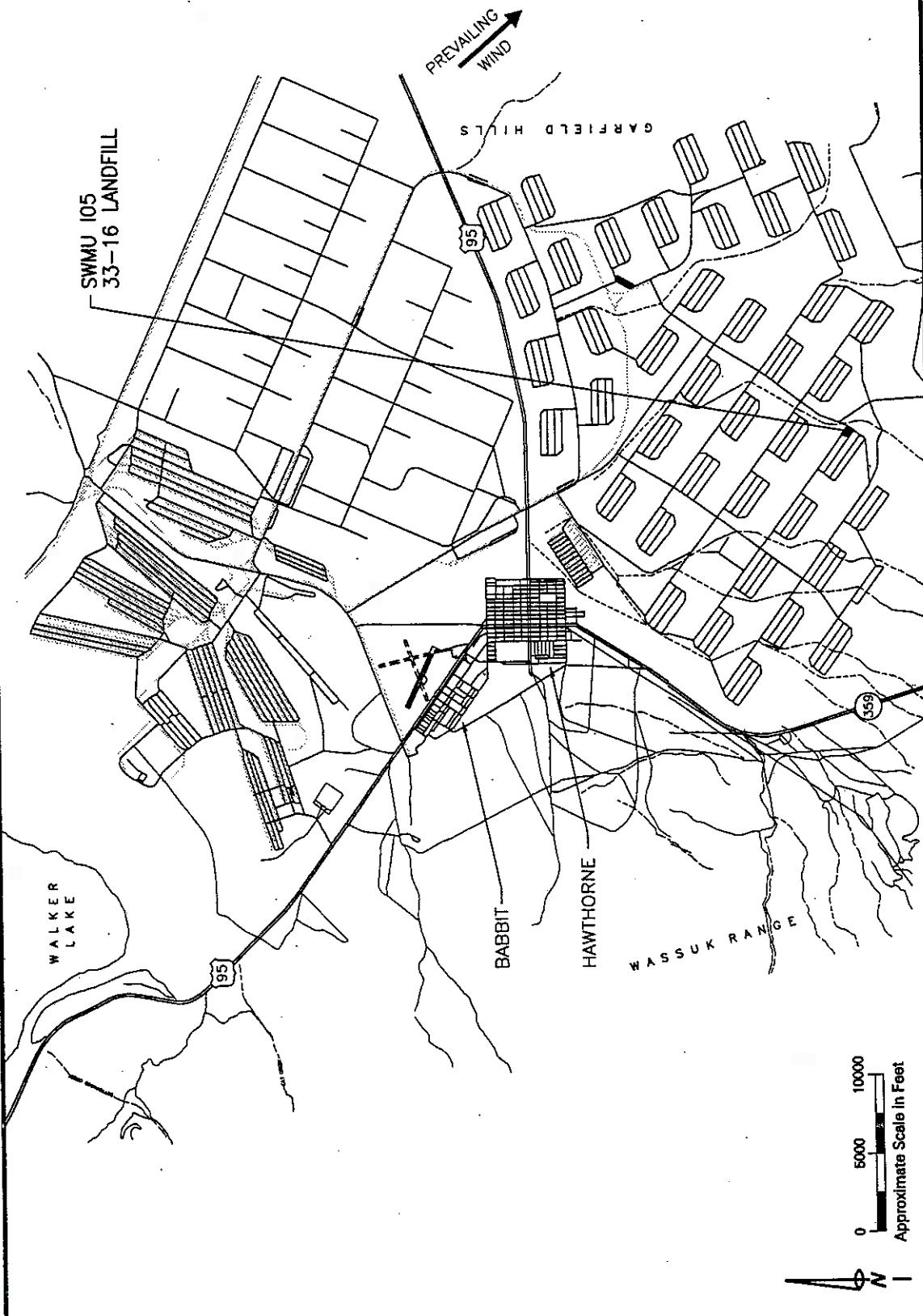
10.0 REFERENCES

- Jacobs Engineering. 1988. RCRA Facility Assessment, Hawthorne Army Ammunition Plant, TES IV Work Assignment No. 433.
- NDEP. September 1998. Letter to HWAD. Draft Remedial Investigation reports, Solid Waste Management Units A05, I05, I06, I17, I18.
- Tetra Tech, Inc. (Tt). 1993. Draft Technical Memorandum for Group B SWMUs, Hawthorne Army Ammunition Plant. November 1993.
- _____. 1994a. Hawthorne Army Ammunition Plant - Group B Remedial Investigation: Final Site Safety and Health Plan.
- _____. 1994b. Hawthorne Army Ammunition Plant - Group B Remedial Investigation: Final Work Plan. Two volumes.
- _____. 1994c. Hawthorne Army Ammunition Plant - Group B Remedial Investigation: Final Chemical Data Acquisition Plan.
- _____. 1997a. Final Quarterly Ground Water Monitoring Report, First Quarter 1997, Hawthorne Army Depot, Hawthorne, Nevada. September 1997.
- _____. 1997b. Quarterly Ground Water Monitoring Report, Second Quarter 1997, Hawthorne Army Depot, Hawthorne, Nevada. July 1997.
- _____. 1997c. Final Site Health and Safety Plan, Hawthorne Army Depot, Hawthorne, Nevada. February 1997.
- _____. 1997d. Final Data Package with recommendations for future action, Group B solid waste management units, Hawthorne Army Depot, Hawthorne, Nevada, Volumes 1, 2a, and 2b. January 1997.
- _____. 1997e. Final Sampling and Analysis Plan, Remedial Investigations, Groups A and B Solid Waste Management Units, Hawthorne Army Depot, Hawthorne, Nevada. February 1997.
- _____. 1997f. Final Technical Memorandum Background Sampling at the Hawthorne Army Depot, Hawthorne, Nevada. March 1997.

**Site Location Map
SWMU 105
33-16 Landfill**
Hawthorne Army Depot
Hawthorne, Nevada

Figure 1-1

SOURCE: TETRA TECH FINAL DATA PACKAGE, 1996 (REV. 1997)





Legend:

- Boundary Corner Pin
- ☒ Explosion Barrier
- ▲ SWMU Monument



0 30 60
Approximate Scale in feet

**Site Map
SWMU 105**

33-16 Landfill
Hawthorne Army Depot
Hawthorne, Nevada

Figure 1-2

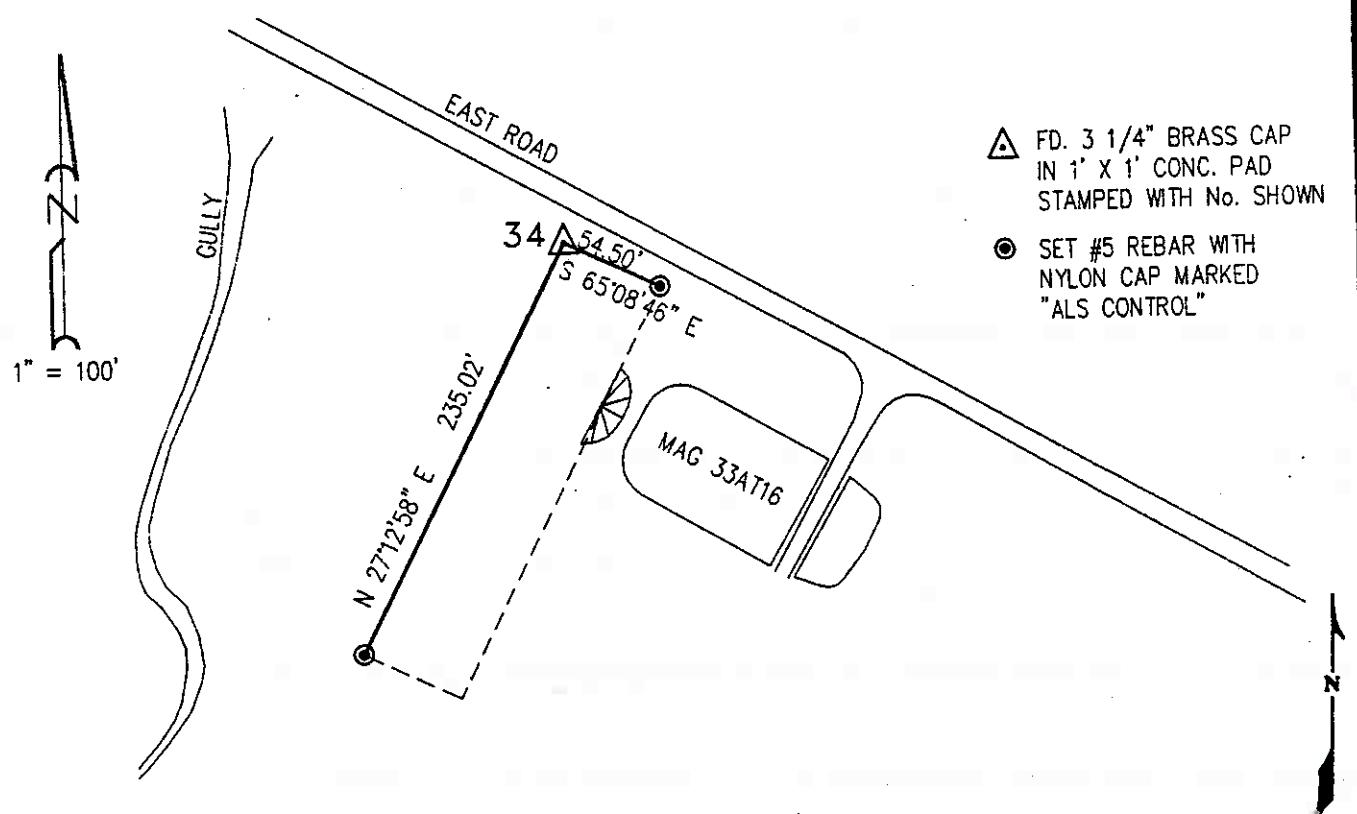


**Investigation Activity Map
SWMU I05
33-16 Landfill
Hawthorne Army Depot
Hawthorne, Nevada
Figure 3-1**

Appendix A

COUNTRY USA	TYPE OF MARK BRASS CAP	STATION 34	ELEVATION 4772.97 (FT) (M)
LOCALITY HAWTHORNE NEV.	STAMPING ON MARK 34 I-5	AGENCY (CAST IN MARKS) COE HWAAP	DATUM NGVD '29
LATITUDE 38°21'56.65261" N	LONGITUDE 118°35'06.02045" W	DATUM NAD '27	ESTABLISHED BY (AGENCY) A.L.S.
(NORTHING)(EASTING) 1352640.65 (M)	(EASTING)(NORTHING) 499521.19 (M)	GRID AND ZONE NEVADA SP WEST	DATE 1997
(NORTHING)(EASTING) (M)	(EASTING)(NORTHING) (M)	GRID AND ZONE	ORDER 2 ND
TO OBTAIN GRID AZIMUTH, ADD : TO OBTAIN GRID AZ. (ADD)(SUB.)			
TO THE GEODETIC AZIMUTH TO THE GEODETIC AZIMUTH			
OBJECT	AZIMUTH OR DIRECTION (GEODETIC)(GRID) (MAGNETIC)	BACK AZIMUTH	GEOD. DISTANCE (METERS) (FEET)
	° ' "	° ' "	

MONUMENT 34 – SWMU I-5
 FROM HIGHWAY 95 TAKE MINE ROAD SOUTHEAST 3600 FEET TO 2ND AVENUE
 SOUTH, THEN SOUTHEAST ON 2ND 2.3 MILES TO EAST ROAD, THEN
 SOUTHWEST ON EAST ROAD 2.3 MILES TO MAG 33AT16. SEE MAP BELOW.
 MONUMENT IS A 3 1/4" BRASS CAP SET IN A 1' X 1' CONCRETE PAD AND
 IS MARKED WITH A 4" X 4" X 6' WOOD POST, PAINTED WHITE.



SKETCH

DA FORM 1 OCT 64 1959

REPLACES DA FORMS 1959
AND 1960, 1 FEB 57, WHICH
ARE OBSOLETE.

DESCRIPTION OR RECOVERY OF HORIZONTAL CONTROL STATION
 For use of this form, see TM 5-237; the proponent
agency is TRADOC.

SWMU 105 Survey Data
Hawthorne Army Depot
Hawthorne, Nevada

SWMU	Point ID	Northing (feet)	Easting (feet)	Elevation
I05	HWAAP-34-1996	1352640.65	499521.19	4772.97
I05	Pin 1	1352617.74	499570.64	NE
I05	Pin 2	1352431.65	499413.70	NE
I05	TP01	1352615.06	499522.19	NE
I05	TP02	1352570.30	499487.19	NE
I05	TP04	1352499.83	499459.66	NE

Notes:

NE = Not established.

Coordinate data based on electronic map file using the NAD 1927 datum.

Elevation data based on surveyors map using NGVD 1929 datum.

Appendix B

Proposed Closure Goals
Hawthorne Army Depot
Hawthorne, Nevada

Constituent of Concern	Chemical Classification	Carcinogenic (C) or Non-Carcinogenic (NC)	HWAD Proposed Closure Goals for Soil (mg/kg)	HWAD Proposed Closure Goal Source
Nitrate	Anion	NC	128,000	Calculated Subpart S ^a
2-Amino-dinitrotoluene	Explosive	NC	-	NA ^b
4-Amino-dinitrotoluene	Explosive	NC	-	NA
1,3-Dinitrobenzene	Explosive	NC	8	Calculated Subpart S
2,4-Dinitrotoluene	Explosive	NC	160	Calculated Subpart S
2,6-Dinitrotoluene	Explosive	NC	80	Calculated Subpart S
HMX	Explosive	NC	4,000	Calculated Subpart S
Nitrobenzene	Explosive	NC	40	Calculated Subpart S
Nitrotoluene (2-, 3-, 4-)	Explosive	NC	800	Calculated Subpart S
RDX	Explosive	NC	64	Calculated Subpart S
Tetryl	Explosive	NC	800	Calculated Subpart S
1,3,5-Trinitrobenzene	Explosive	NC	4	Calculated Subpart S
2,4,6-Trinitrotoluene	Explosive	C	233	Calculated Subpart S
Aluminum	Metal	NC	80,000	Calculated Subpart S
Arsenic (cancer endpoint)	Metal	C & NC	30	Background ^c
Barium and compounds	Metal	NC	5,600	Calculated Subpart S
Beryllium and compounds	Metal	C	1	Background
Cadmium and compounds	Metal	NC	40	Calculated Subpart S
Chromium III and compounds	Metal	NC	80,000	Calculated Subpart S
Lead	Metal	NC	1000	PRG ^d
Mercury and compounds (inorganic)	Metal	NC	24	Calculated Subpart S
Selenium	Metal	NC	400	Calculated Subpart S
Silver and compounds	Metal	NC	400	Calculated Subpart S
Acenaphthene	PAH	NC	4,800	Calculated Subpart S
Benzo[a]anthracene	PAH	C	0.96	Calculated Subpart S
Benzo[a]pyrene	PAH	C	0.10	Detection Limit ^e
Benzo[b]fluoranthene	PAH	C	0.96	Calculated Subpart S
Benzo[k]fluoranthene	PAH	C	10	Calculated Subpart S
Chrysene	PAH	C	96	Calculated Subpart S
Dibenz[ah]anthracene	PAH	C	0.96	Calculated Subpart S
Fluoranthene	PAH	NC	3,200	Calculated Subpart S
Fluorene	PAH	NC	3,200	Calculated Subpart S
Indeno[1,2,3-cd]pyrene	PAH	C	-	NA
Naphthalene	PAH	NC	3,200	Calculated Subpart S
Pyrene	PAH	NC	2,400	Calculated Subpart S
Total Petroleum Hydrocarbons as Diesel (TPH-d)	PAH	C	100	NDEP Level Clean-up ^f
Polychlorinated biphenyls (PCBs)	PCBs	C	25	TSCA ^g
Bis(2-ethylhexyl)phthalate (DEHP)	SVOC	C	1,600	Calculated Subpart S
Bromoform (tribromomethane)	SVOC	C	89	Calculated Subpart S

Proposed Closure Goals
Hawthorne Army Depot
Hawthorne, Nevada

Constituent of Concern	Chemical Classification	Carcinogenic (C) or Non-carcinogenic (NC)	HWAD Proposed Closure Goals for Soil (mg/kg)	HWAD Proposed Closure Goal Source
Butyl benzyl phthalate	SVOC	NC	16,000	Calculated Subpart S
Dibromochloromethane	SVOC	C	83	Calculated Subpart S
Dibutyl-phthalate	SVOC	NC	8,000	Calculated Subpart S
Diethyl phthalate	SVOC	NC	64,000	Calculated Subpart S
Phenanthrene	SVOC	-	-	NA
Phenol	SVOC	NC	48,000	Calculated Subpart S
Acetone	VOC	NC	800	Calculated Subpart S
Anthracene	VOC	NC	24,000	Calculated Subpart S
Benzene	VOC	C	24	Calculated Subpart S
Bis(2-chloroisopropyl)ether	VOC	C	3,200	Calculated Subpart S
Bromomethane	VOC	NC	112	Calculated Subpart S
Carbon tetrachloride	VOC	C	5	Calculated Subpart S
Chlorobenzene	VOC	NC	1,600	Calculated Subpart S
Chloroform	VOC	C	115	Calculated Subpart S
Chloromethane	VOC	C	538	Calculated Subpart S
Dibromomethane	VOC	C	0.008	Calculated Subpart S
1,2-Dichlorobenzene	VOC	NC	7,200	Calculated Subpart S
1,4-Dichlorobenzene	VOC	C	18,300	Calculated Subpart S
Dichlorodifluoromethane	VOC	C	16,000	Calculated Subpart S
Ethylbenzene	VOC	NC	8,000	Calculated Subpart S
Methylene bromide	VOC	NC	800	Calculated Subpart S
Methylene chloride	VOC	C	4,800	Calculated Subpart S
2-Methylnaphthalene	VOC	-	-	NA
1,1,2,2-Tetrachloroethane	VOC	C	35	Calculated Subpart S
Tetrachloroethylene (PCE)	VOC	C & NC	800	Calculated Subpart S
Toluene	VOC	NC	16,000	Calculated Subpart S
1,1,1-Trichloroethane	VOC	NC	7,200	Calculated Subpart S
Trichloroethylene (TCE)	VOC	C & NC	480	Calculated Subpart S
Trichlorofluoromethane	VOC	NC	24,000	Calculated Subpart S
1,2,3-Trichloropropane	VOC	C	480	Calculated Subpart S
Vinyl chloride	VOC	C	0.37	Calculated Subpart S
Xylene Total (m-, o-, p-)	VOC	NC	160,000	Calculated Subpart S
2,3,7,8-TCDD	Dioxin	C	0.000005	Calculated Subpart S

^a RCRA 55 FR 30870

^b Not available

^c Highest background concentration detected in 50 background soil samples

^d Smucker, Stanford J. USEPA Region IX, Preliminary Remedial Goals, Second Half, Sep. 1995

^e Method detection limit for Volatile Organic Compounds by EPA Method 8260 or

^f Semi-Volatile Organic Compounds analyzed by EPA Method 8270

^g Nevada Division of Environmental Protection

^h Cleanup level for PCB spills in accordance with Toxic Substance and Control Act Spill Policy Guidelines 40 CFR 761

Appendix C

TPH Test Kit
Method 4030 (Tt Field)

Sample ID	Location ID	Sample Depth		Lab	TPH-d	TPH-d (Rerun)	TPH-d-Dup
		Date	(feet)				
					mg/kg	mg/kg	mg/kg
J02-TP01-1-S	TP01	2/26/97	5	Tt Field	100<X<500	NA	NA
J02-TP01-2-S	TP01	2/26/97	3	Tt Field	100<X<500	NA	NA
J02-TP01-3-S	TP01	2/26/97	3	Tt Field	100<X<500	NA	NA
J02-TP02-1-S	TP02	2/27/97	5	Tt Field	100<X<500	NA	NA
J02-TP02-2-S	TP02	2/27/97	1	Tt Field	100<X<500	NA	NA
J02-TP03-1-S	TP03	2/27/97	5	Tt Field	100<X<500	NA	NA
J02-TP03-2-S	TP03	2/27/97	1.5	Tt Field	100<X<500	NA	NA
J02-TR01-1-S	TR01	2/27/97	6	Tt Field	100<X<500	0<X<20	NA
J02-TR01-2-S	TR01	2/27/97	6	Tt Field	100<X<500	NA	NA
J02-TR01-3-S	TR01	2/27/97	11.5	Tt Field	100<X<500	NA	NA
J02-TR01-4-S	TR01	2/27/97	6	Tt Field	100<X<500	NA	NA
J02-TR01-5-S	TR01	2/27/97	13	Tt Field	100<X<500	NA	NA
J02-TR02-1-S	TR02	2/27/97	5	Tt Field	100<X<500	NA	NA
J02-TR02-2-S	TR02	2/27/97	5	Tt Field	100<X<500	NA	NA
Analyses					14	1	0
Detections					0	0	0
Minimum Concentration					0	0	0
Maximum Concentration					0	0	0
HWAD - PCG					100	100	100
HWAD - PCG Hits					14	0	0

Notes:

NA = Not analyzed.
NE = Not established.

BTEX Test Kit
Method 4031 (Tt Field)

Sample ID	Location ID	Date	Depth (feet)	Lab	BTEX
					mg/kg
J02-DP135	HA09	7/23/94	2	Tt Field	X<2
J02-DP273	SB03	8/21/94	8	Tt Field	X<4
J02-HA01-1-S	HA01	7/22/94	2	Tt Field	X<2
J02-HA01-2-S	HA01	7/22/94	3	Tt Field	X<2
J02-HA02-1-S	HA02	7/22/94	2	Tt Field	X<2
J02-HA03-1-S	HA03	7/22/94	2	Tt Field	X<2
J02-HA03-2-S	HA03	7/22/94	3	Tt Field	X<2
J02-HA04-1-S	HA04	7/22/94	1.5	Tt Field	X<2
J02-HA04-2-S	HA04	7/22/94	3	Tt Field	X<2
J02-HA05-1-S	HA05	7/22/94	2	Tt Field	X<2
J02-HA05-2-S	HA05	7/22/94	5	Tt Field	X<2
J02-HA06-1-S	HA06	7/22/94	1	Tt Field	X<2
J02-HA09-1-S	HA09	7/23/94	1	Tt Field	X<2
J02-HA09-2-S	HA09	7/23/94	2	Tt Field	X<2
J02-SB02-1-S	SB02	8/21/94	8	Tt Field	X<4
J02-SB03-1-S	SB03	8/21/94	8	Tt Field	X<4
<hr/>					
Analyses					16
Detections					0
Minimum Concentration					0
Maximum Concentration					0
<hr/>					
HWAD - PCG					NE
HWAD - PCG Hits					NE

Notes:

NA = Not analyzed.

NE = Not established.

Metals
Method 6010 (BCA)

Sample ID	Location ID	Sample Date	Depth (feet)	Lab	Aluminum	Arsenic	Barium	Cadmium	Selenium	Silver	Chromium	Lead
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
J02-DP132	HA09	7/23/94	2	BCA	NA	15 ^J	40	0.71	<5	<0.9	5.2	<5
J02-DP270	SB02	8/21/94	8	BCA	NA	<6	230	<0.3	<7	<1.3	20	10 ^J
J02-DP275	SB03	8/21/94	8	BCA	NA	<6	280	<0.3	<7	<1.3	17	<7
J02-HA01-1-S	HA01	7/22/94	2	BCA	NA	15 ^J	67	<0.2	<5	<1	<0.6	<5
J02-HA01-2-S	HA01	7/22/94	3	BCA	NA	16 ^J	59	<0.2	<5	<1	<0.6	<5
J02-HA02-1-S	HA02	7/22/94	2	BCA	NA	16 ^J	70	<0.2	<5	<0.9	<0.6	5
J02-HA03-1-S	HA03	7/22/94	2	BCA	NA	10 ^J	69	<0.2	<5	<1	<0.6	6.9 ^J
J02-HA03-2-S	HA03	7/22/94	3	BCA	NA	7.2 ^J	94	<0.2	<5	<0.9	1 ^J	27 ^J
J02-HA04-1-S	HA04	7/22/94	1.5	BCA	NA	16 ^J	77	<0.2	<5	<0.9	<0.6	<5
J02-HA04-2-S	HA04	7/22/94	3	BCA	NA	7.6 ^J	51	<0.2	<5	<1	<0.6	<5
J02-HA05-1-S	HA05	7/22/94	2	BCA	NA	10 ^J	29	<0.2	<5	<1	<0.7	<5
J02-HA05-2-S	HA05	7/22/94	5	BCA	NA	6 ^J	200	<0.2	<6	<1.1	1.1 ^J	<6
J02-HA06-1-S	HA06	7/22/94	1	BCA	NA	<4	51	<0.2	<5	<0.9	69	<5
J02-HA07-1-S	HA07	7/23/94	1	BCA	NA	6.9 ^J	49	<0.2	<5	<0.9	4 ^J	<5
J02-HA08-1-S	HA08	7/23/94	1	BCA	NA	13 ^J	35	<0.2	<5	<0.9	1.8 ^J	<5
J02-HA09-1-S	HA09	7/23/94	1	BCA	NA	24 ^J	37	<0.2	<5	<0.9	3.8 ^J	<5
J02-HA09-2-S	HA09	7/23/94	2	BCA	NA	19 ^J	48	<0.2	<5	<0.9	3.4 ^J	<5
J02-SB01-1-S	SB01	8/21/94	8.25	BCA	NA	<6	430	<0.3	<7	<1.2	17	9.4 ^J
J02-SB01-2-S	SB01	8/21/94	19.25	BCA	NA	<4	91	0.33 ^U	<5	<1	9.5	<5
J02-SB01-3-S	SB01	8/21/94	23.25	BCA	NA	<4	44	0.34 ^U	<5	<0.9	5.2	<5
J02-SB02-1-S	SB02	8/21/94	8	BCA	NA	<5	290	<0.3	<7	<1.2	17	9.1 ^J
J02-SB02-2-S	SB02	8/21/94	19.25	BCA	NA	7.5 ^J	190	0.44 ^U	<5	<0.9	4.5 ^J	<5
J02-SB02-3-S	SB02	8/21/94	23.25	BCA	NA	<4	71	0.35 ^U	<5	<1	7.9	<5
J02-SB03-1-S	SB03	8/21/94	8	BCA	NA	<5	190	<0.2	<6	<1.1	14	<6
J02-SB03-2-S	SB03	8/21/94	19.25	BCA	NA	14 ^J	560	0.71 ^U	14 ^J	<1	10	<6
J02-SB03-3-S	SB03	8/21/94	23.25	BCA	NA	<4	41	0.41 ^U	<5	<0.9	3.9 ^J	<5
<hr/>					Analyses	0	26	26	26	26	26	26
<hr/>					Detections	0	16	26	7	1	0	19
<hr/>					Minimum Concentration	0	6	29	0.33	14	0	1
<hr/>					Maximum Concentration	0	24	560	0.71	14	0	69
<hr/>					HWAD - PCG	80000	100	2000	20	20	100	20
<hr/>					HWAD - PCG Hits	0	0	0	0	0	0	2
<hr/>					Maximum Background Concentration	12365	18.1	447	1.08	0	0	13.76
<hr/>					Background Hits	0	2	1	0	0	0	6
<hr/>					Notes:							
<hr/>					NA = Not analyzed.							
<hr/>					NE = Not established.							

Metals
Method 6010A (APCL)

Sample ID	Location ID	Date	Depth (feet)	mg/kg	mg/kg						mg/kg	mg/kg	mg/kg	
					Chromium, Total	Cadmium, Total	Beryllium, Total	Barium, Total	Arsenic, Total	Aluminum, Total				
J02-TP01-1-S	TP01	2/26/97	5	APCL	7360	7.8	72.7	<0.02	<0.023	4.5	4.7	NA	<0.21	<0.08
J02-TP01-2-S	TP01	2/26/97	3	APCL	10900	6.6	137	<0.02	<0.023	6.5	6	NA	<0.21	<0.08
J02-TP01-3-S	TP01	2/26/97	3	APCL	8640	5.8	98.7	<0.019	<0.022	5.3	5.2	NA	<0.2	<0.077
J02-TP02-1-S	TP02	2/27/97	5	APCL	4170	9.7	46.2	<0.019	<0.022	3.9	4.7	NA	<0.2	<0.076
J02-TP02-2-S	TP02	2/27/97	1	APCL	3770	25.9	72.5	<0.018	0.277	5.1	14.1	NA	<0.19	<0.073
J02-TP03-1-S	TP03	2/27/97	5	APCL	12700	19.7	187	<0.02	0.19 ^j	8.5	7.9	NA	<0.21	<0.081
J02-TP03-2-S	TP03	2/27/97	1.5	APCL	3710	161	58.6	<0.018	1.2	9.7	26.9	NA	<0.19	<0.071
J02-TR01-1-S	TR01	2/27/97	6	APCL	3260	14.3	59.5	<0.017	0.15 ^j	2.8	4.4	NA	<0.18	<0.071
J02-TR01-2-S	TR01	2/27/97	6	APCL	3020	14.6	61.7	<0.017	0.17 ^j	2.5	4.7	NA	<0.18	<0.071
J02-TR01-3-S	TR01	2/27/97	11.5	APCL	3110	7.5	46.9	<0.017	0.08 ^j	1.6	2.4	NA	<0.18	<0.07
J02-TR01-4-S	TR01	2/27/97	6	APCL	5540	20.7	62.8	<0.018	0.22	4.5	3.5	NA	<0.19	<0.071
J02-TR01-5-S	TR01	2/27/97	13	APCL	3900	18.1	55.2	<0.018	0.11 ^j	3.4	3.4	NA	<0.19	<0.071
J02-TR02-1-S	TR02	2/27/97	5	APCL	22600	8.7	273	0.18 ^j	<0.028	12.4	12.5	NA	<0.25	<0.088
J02-TR02-2-S	TR02	2/27/97	5	APCL	15500	17.9	263	0.17 ^j	0.34	9.9	10.6	NA	<0.23	<0.088
Analyses			14		14	14	14	14	14	14	14	0	14	14
Detections			14		14	14	2	9	14	14	0	0	0	0
Minimum Concentration			3020		5.8	46.2	0.17	0.08	1.6	2.4	0	0	0	0
Maximum Concentration			22600		161	273	0.18	1.2	12.4	26.9	0	0	0	0
HWAD - PCG			80000		100	2000	1	20	20	100	NE	20	100	
HWAD - PCG Hits			0		1	0	0	0	0	0	NE	0	0	
Maximum Background Concentration			12365		18.1	447	0.58	1.08	13.76	16.7	0	0	0	0
Background Hits			3		4	0	0	1	0	1	0	0	0	0

Notes:
NA = Not analyzed.
NE = Not established.

Mercury
Method 7471 (BCA)

Sample ID	Location ID	Sample Date	Depth (feet)	Lab	Mercury
					mg/kg
J02-DP132	HA09	7/23/94	2	BCA	<0.04
J02-DP270	SB02	8/21/94	8	BCA	<0.06
J02-DP275	SB03	8/21/94	8	BCA	<0.06
J02-HA01-1-S	HA01	7/22/94	2	BCA	0.047
J02-HA01-2-S	HA01	7/22/94	3	BCA	0.051
J02-HA02-1-S	HA02	7/22/94	2	BCA	0.043
J02-HA03-1-S	HA03	7/22/94	2	BCA	<0.04
J02-HA03-2-S	HA03	7/22/94	3	BCA	<0.04
J02-HA04-1-S	HA04	7/22/94	1.5	BCA	0.046
J02-HA04-2-S	HA04	7/22/94	3	BCA	<0.04
J02-HA05-1-S	HA05	7/22/94	2	BCA	<0.04
J02-HA05-2-S	HA05	7/22/94	5	BCA	<0.05
J02-HA06-1-S	HA06	7/22/94	1	BCA	<0.04
J02-HA07-1-S	HA07	7/23/94	1	BCA	<0.04
J02-HA08-1-S	HA08	7/23/94	1	BCA	<0.04
J02-HA09-1-S	HA09	7/23/94	1	BCA	<0.04
J02-HA09-2-S	HA09	7/23/94	2	BCA	<0.04
J02-SB01-1-S	SB01	8/21/94	8.25	BCA	<0.06
J02-SB01-2-S	SB01	8/21/94	19.25	BCA	<0.04
J02-SB01-3-S	SB01	8/21/94	23.25	BCA	<0.04
J02-SB02-1-S	SB02	8/21/94	8	BCA	<0.05
J02-SB02-2-S	SB02	8/21/94	19.25	BCA	<0.04
J02-SB02-3-S	SB02	8/21/94	23.25	BCA	<0.04
J02-SB03-1-S	SB03	8/21/94	8	BCA	<0.05
J02-SB03-2-S	SB03	8/21/94	19.25	BCA	<0.05
J02-SB03-3-S	SB03	8/21/94	23.25	BCA	<0.04

Analyses	26
Detections	4
Minimum Concentration	0.043
Maximum Concentration	0.051
HWAD - PCG	24
HWAD - PCG Hits	0
Maximum Background Concentration	0.108
Background Hits	0

Notes:

NA = Not analyzed.

NE = Not established.

Mercury
Method 7471A (APCL)

Sample ID	Location ID	Sample Date	Depth (feet)	Lab	Mercury, Total
					mg/kg
J02-TP01-1-S	TP01	2/26/97	5	APCL	<0.079
J02-TP01-2-S	TP01	2/26/97	3	APCL	<0.079
J02-TP01-3-S	TP01	2/26/97	3	APCL	<0.076
J02-TP02-1-S	TP02	2/27/97	5	APCL	<0.075
J02-TP02-2-S	TP02	2/27/97	1	APCL	<0.072
J02-TP03-1-S	TP03	2/27/97	5	APCL	<0.08
J02-TP03-2-S	TP03	2/27/97	1.5	APCL	<0.07
J02-TR01-1-S	TR01	2/27/97	6	APCL	<0.07
J02-TR01-2-S	TR01	2/27/97	6	APCL	<0.07
J02-TR01-3-S	TR01	2/27/97	11.5	APCL	<0.069
J02-TR01-4-S	TR01	2/27/97	6	APCL	<0.07
J02-TR01-5-S	TR01	2/27/97	13	APCL	<0.07
J02-TR02-1-S	TR02	2/27/97	5	APCL	<0.096
J02-TR02-2-S	TR02	2/27/97	5	APCL	<0.087
<hr/>					
Analyses					14
Detections					0
Minimum Concentration					0
Maximum Concentration					0
<hr/>					
HWAD - PCG					24
HWAD - PCG Hits					0
<hr/>					
Maximum Background Concentration					0.108
Background Hits					0
<hr/>					

Notes:

NA = Not analyzed.

NE = Not established.

TPH
Method 8015M (BCA Field)

Sample ID	Location ID	Sample Date	Depth (feet)	Lab	TPH (as diesel) mg/kg
J02-DP133	HA09	7/23/94	2	BCA Field	<0.2
J02-DP271	SB02	8/21/94	8	BCA Field	<0.2
J02-DP276	SB01	8/21/94	0.3	BCA Field	<0.2
J02-HA01-1-S	HA01	7/22/94	2	BCA Field	<0.2
J02-HA01-2-S	HA01	7/22/94	3	BCA Field	<0.2
J02-HA02-1-S	HA02	7/22/94	2	BCA Field	<0.2
J02-HA03-1-S	HA03	7/22/94	2	BCA Field	<0.2
J02-HA03-2-S	HA03	7/22/94	3	BCA Field	<0.2
J02-HA04-1-S	HA04	7/22/94	1.5	BCA Field	<0.2
J02-HA04-2-S	HA04	7/22/94	3	BCA Field	<0.2
J02-HA05-1-S	HA05	7/22/94	2	BCA Field	<0.2
J02-HA05-2-S	HA05	7/22/94	5	BCA Field	<0.2
J02-HA06-1-S	HA06	7/22/94	1	BCA Field	<0.2
J02-HA07-1-S	HA07	7/23/94	1	BCA Field	<0.2
J02-HA08-1-S	HA08	7/23/94	1	BCA Field	<0.2
J02-HA09-1-S	HA09	7/23/94	1	BCA Field	<0.2
J02-HA09-2-S	HA09	7/23/94	2	BCA Field	<0.2
J02-SB01-1-S	SB01	8/21/94	8.25	BCA Field	<0.2
J02-SB01-2-S	SB01	8/21/94	19.25	BCA Field	<0.2
J02-SB01-3-S	SB01	8/21/94	23.25	BCA Field	<0.2
J02-SB02-1-S	SB02	8/21/94	8	BCA Field	<0.2
J02-SB02-2-S	SB02	8/21/94	19.25	BCA Field	<0.2
J02-SB02-3-S	SB02	8/21/94	23.25	BCA Field	<0.2
J02-SB03-1-S	SB03	8/21/94	8	BCA Field	<0.2
J02-SB03-2-S	SB03	8/21/94	19.25	BCA Field	<0.2
J02-SB03-3-S	SB03	8/21/94	23.25	BCA Field	<0.2
<hr/>					
Analyses					26
Detections					0
Minimum Concentration					0
Maximum Concentration					0
<hr/>					
HWAD - PCG					100
HWAD - PCG Hits					0
<hr/>					

Notes:

NA = Not analyzed.

NE = Not established.

TPH
Method 8015ME

Sample ID	Location ID	Date	Sample Depth (feet)	Lab	C11-C22 (Diesel)	C23-C30 (Motor oil)	C31-C40 (Heavy oil)	C8-C10 (Gasoline)	Diesel Fuel
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
J02-TP03-1-S	TP03	2/27/97	5	APCL	<0.95	<0.43	<0.33	<0.18	NA
J02-TR01-1-S	TR01	2/27/97	6	APCL	<0.83	<0.38	<0.29	<0.15	NA
J02-TR02-2-S	TR02	2/27/97	5	APCL	<1	<0.47	<0.36	<0.19	NA
Analyses					3	3	3	3	0
Detections					0	0	0	0	0
Minimum Concentration					0	0	0	0	0
Maximum Concentration					0	0	0	0	0
HWAD - PCG					100	100	100	100	100
HWAD - PCG Hits					0	0	0	0	0

Notes:

NA = Not analyzed.

NE = Not established.

Explosives
Method 8090M (BCA Field)

Sample ID	Location ID	Sample Date	Depth (feet)	Lab	Analytical Data (mg/kg)										
					1,3,5-Tinitrobenzene	2,3-Dinitrobenzene	1,3-Dinitrotoluene	2,4,6-Tinitrotoluene	2,4-Dinitrotoluene	2,6-Dinitrotoluene	2-Nitrotoluene	4-Nitrotoluene	Nitrobenzene	RDX	Tetryl
J02-DP133	HA09	7/23/94	2	BCA Field	<0.5 u-	<0.25	NA	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<50 R	<0.25
J02-DP271	SB02	8/21/94	8	BCA Field	<0.5 u-	<0.25	NA	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<50 R	<0.25
J02-DP272	SB03	8/21/94	8	BCA Field	<0.5 u-	<0.25	NA	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<50 R	<0.25
J02-HA01-1-S	HA01	7/22/94	2	BCA Field	<0.5 u-	<0.25	NA	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<50 R	<0.25
J02-HA01-2-S	HA01	7/22/94	3	BCA Field	<0.5 u-	<0.25	NA	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<50 R	<0.25
J02-HA02-1-S	HA02	7/22/94	2	BCA Field	<0.5 u-	<0.25	NA	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<50 R	<0.25
J02-HA03-1-S	HA03	7/22/94	2	BCA Field	<0.5 u-	<0.25	NA	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<50 R	<0.25
J02-HA03-2-S	HA03	7/22/94	3	BCA Field	<0.5 u-	<0.25	NA	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<50 R	<0.25
J02-HA04-1-S	HA04	7/22/94	1.5	BCA Field	<0.5 u-	<0.25	NA	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<50 R	<0.25
J02-HA04-2-S	HA04	7/22/94	3	BCA Field	<0.5 u-	<0.25	NA	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<50 R	<0.25
J02-HA05-1-S	HA05	7/22/94	2	BCA Field	<0.5 u-	<0.25	NA	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<50 R	<0.25
J02-HA05-2-S	HA05	7/22/94	5	BCA Field	<0.5 u-	<0.25	NA	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<50 R	<0.25
J02-HA06-1-S	HA06	7/22/94	1	BCA Field	<0.5 u-	<0.25	NA	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<50 R	<0.25
J02-HA07-1-S	HA07	7/23/94	1	BCA Field	<0.5 u-	<0.25	NA	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<50 R	<0.25
J02-HA08-1-S	HA08	7/23/94	1	BCA Field	<0.5 u-	<0.25	NA	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<50 R	<0.25
J02-HA09-1-S	HA09	7/23/94	1	BCA Field	<0.5 u-	<0.25	NA	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<50 R	<0.25
J02-HA09-2-S	HA09	7/23/94	2	BCA Field	<0.5 u-	<0.25	NA	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<50 R	<0.25
J02-SB01-1-S	SB01	8/21/94	8.25	BCA Field	<0.5 u-	<0.25	NA	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<50 R	<0.25
J02-SB01-2-S	SB01	8/21/94	19.25	BCA Field	<0.5 u-	<0.25	NA	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<50 R	<0.25
J02-SB01-3-S	SB01	8/21/94	23.25	BCA Field	<0.5 u-	<0.25	NA	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<50 R	<0.25
J02-SB02-1-S	SB02	8/21/94	8	BCA Field	<0.5 u-	<0.25	NA	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<50 R	<0.25
J02-SB02-2-S	SB02	8/21/94	19.25	BCA Field	<0.5 u-	<0.25	NA	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<50 R	<0.25
J02-SB02-3-S	SB02	8/21/94	23.25	BCA Field	<0.5 u-	<0.25	NA	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<50 R	<0.25
J02-SB03-1-S	SB03	8/21/94	8	BCA Field	<0.5 u-	<0.25	NA	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<50 R	<0.25
J02-SB03-2-S	SB03	8/21/94	19.25	BCA Field	<0.5 u-	<0.25	NA	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<50 R	<0.25
J02-SB03-3-S	SB03	8/21/94	23.25	BCA Field	<0.5 u-	<0.25	NA	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<50 R	<0.25

Analyses
Detections
Minimum Concentration
Maximum Concentration

Explosives
Method 8090M (BCA Field)

Sample ID	Location ID	Depth (feet)	Lab	1,3,5-Trinitrobenzene	1,3-Dinitrobenzene	2,3-Dinitrotoluene	2,4,6-Trinitrotoluene	2,4-Dinitrotoluene	2,6-Dinitrotoluene	2-Nitrotoluene	3-Nitrotoluene	4-Nitrotoluene	Nitrobenzene	RDX	Tetryl	
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg		
HWAD - PCG				4	8	NE	233	2.6	80	800	800	40	64	800		
HWAD - PCG Hits				0	0	NE	0	0	0	0	0	0	0	0	0	

Notes:
NA = Not analyzed.
NE = Not established.

OCS
Method 8260 (BCA)

	Sample ID	Location ID	Sample Date	Depth (feet)	Lab	mg/kg						
J02-DP136	HA09	7/23/94	2	BCA	<0.0004	<0.0006	0.0017	<0.0004	<0.0002	<0.0002	<0.0006	<0.0008
J02-DP274	SB03	8/21/94	8	BCA	<0.0004	<0.0007	<0.0002	<0.0004	<0.0002	<0.0002	<0.0007	<0.0009
Analyses			2	2	2	2	2	2	2	2	2	2
Detections			0	0	1	0	0	0	0	0	0	0
Minimum Concentration			0	0	0.0017	0	0	0	0	0	0	0
Maximum Concentration			0	0	0.0017	0	0	0	0	0	0	0
HWAD - PCG			NE	7200	35	NE	NE	NE	480	7200	NE	NE
HWAD - PCG Hits			NE	0	0	NE	NE	NE	0	0	NE	NE

Notes:
 NA = Not analyzed.
 NE = Not established.

VOCs
Method 8260 (BCA)

Sample ID	Location ID	Sample Date	Depth (feet)	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
J02-DP136	HA09	7/23/94	2	BCA	<0.0002	<0.0004	<0.0006	<0.0002	<0.0004	<0.0019
	SB03	8/21/94	8	BCA	<0.0002	<0.0004	<0.0007	<0.0002	<0.0007	<0.0002
J02-DP274										
Analyses			2	2	2	2	2	2	2	2
Detections			0	0	0	0	0	0	1	0
Minimum Concentration			0	0	0	0	0	0	0.0019	0
Maximum Concentration			0	0	0	0	0	0	0.0019	0
HWAD - PCG			NE	150	NE	10	NE	NE	89	112
HWAD - PCG Hits			NE	0	NE	0	NE	NE	0	0

Notes:

NA = Not analyzed.

NE = Not established.

VOCs
Method 8260 (BCA)

	Sample ID	Location ID	Depth (feet)	Lab	Sample mg/kg	Chloroform mg/kg	Chloromethane mg/kg	Cis-1,3-Dichloropropene mg/kg	Dibromochloromethane mg/kg	Dibromoethane mg/kg	Ethylibenzene mg/kg	Dichlorodifluoromethane mg/kg
J02-DP136	HA09	7/23/94	2	BCA	<0.0006	<0.0002	<0.0002	<0.0006	<0.0002	<0.0002	<0.0001	<0.0002
J02-DP274	SB03	8/21/94	8	BCA	<0.0007	<0.0002	<0.0002	<0.0007	<0.0002	<0.0007	<0.0001	<0.0002
<hr/>												
Analyses			2		2	2	2	2	2	2	2	2
Detections			0		0	0	0	0	0	0	0	0
Minimum Concentration			0		0	0	0	0	0	0	0	0
Maximum Concentration			0		0	0	0	0	0	0	0	0
HWAD - PCG			10		2000	NE	120	538	NE	83	800	16000
HWAD - PCG Hits			0		0	NE	0	0	NE	0	0	0

Notes:
NA = Not analyzed.
NE = Not established.

VOCs
Method 8260 (BCA)

Sample ID	Location ID	Sample Date	Depth (feet)	Lab	Total Xylenes			
					mg/kg	mg/kg	mg/kg	mg/kg
J02-DP136	HA09	7/23/94	2	BCA	<0.0004	0.0013	<0.0006	<0.0002
J02-DP274	SB03	8/21/94	8	BCA	0.0014	<0.0007	<0.0004	<0.0002
Analyses			2		2	2	2	2
Detections			1		0	0	0	0
Minimum Concentration			0.0014		0.0013	0	0	0
Maximum Concentration			0.0014		0.0013	0	0	0
HWAD - PCG			4800		15	16000	160000	NE
HWAD - PCG Hits			0		0	0	NE	NE
							10	24000
							0	24000

Notes:
NA = Not analyzed.
NE = Not established.

VOCS
Method 8260A (APCL)

Sample ID	Location ID	Date	Depth (feet)	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
J02-TP01-1-S	TP01	2/26/97	5	APCL	<0.0001	<0.0002	<0.0001	<0.0002	<0.0002
J02-TP01-2-S	TP01	2/26/97	3	APCL	<0.0001	<0.0002	<0.0001	<0.0002	<0.0002
J02-TP01-3-S	TP01	2/26/97	3	APCL	<0.0001	<0.0002	<0.0001	<0.0002	<0.0002
J02-TP02-1-S	TP02	2/27/97	5	APCL	<0.0001	<0.0002	<0.0001	<0.0002	<0.0002
J02-TP02-2-S	TP02	2/27/97	1	APCL	<0.0001	<0.0002	<0.0001	<0.0002	<0.0002
J02-TP03-1-S	TP03	2/27/97	5	APCL	<0.0001	<0.0002	<0.0001	<0.0002	<0.0002
J02-TP03-2-S	TP03	2/27/97	1.5	APCL	<0.0001	<0.0002	<0.0001	<0.0002	<0.0002
J02-TR01-1-S	TR01	2/27/97	6	APCL	<0.0001	<0.0002	<0.0001	<0.0002	<0.0002
J02-TR01-2-S	TR01	2/27/97	6	APCL	<0.0001	<0.0002	<0.0001	<0.0002	<0.0002
J02-TR01-3-S	TR01	2/27/97	11.5	APCL	<0.0001	<0.0002	<0.0001	<0.0002	<0.0002
J02-TR01-4-S	TR01	2/27/97	6	APCL	<0.0001	<0.0002	<0.0001	<0.0002	<0.0002
J02-TR01-5-S	TR01	2/27/97	13	APCL	<0.0001	<0.0002	<0.0001	<0.0002	<0.0002
J02-TR02-1-S	TR02	2/27/97	5	APCL	<0.0001	<0.0003	<0.0001	<0.0003	<0.0003
J02-TR02-2-S	TR02	2/27/97	5	APCL	<0.0001	<0.0003	<0.0001	<0.0003	<0.0003
Analyses		14	14	14	14	14	14	14	14
Detections		0	0	0	0	0	0	0	0
Minimum Concentration		0	0	0	0	0	0	0	0
Maximum Concentration		0	0	0	0	0	0	0	0
HWAD - PCG	NE	7200	35	NE	NE	NE	NE	NE	480
HWAD - PCG Hts	NE	0	0	NE	NE	NE	NE	0	NE

Notes:
 NA = Not analyzed.
 NE = Not established.

VOCS
Method 8260A (APCI)

Sample ID	Location ID	Date	Depth (feet)	Lab	mg/kg							
J02-TP01-1-S	TP01	2/26/97	5	APCL	<0.0001	<0.0006	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0001
J02-TP01-2-S	TP01	2/26/97	3	APCL	<0.0001	<0.0008	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0001
J02-TP01-3-S	TP01	2/26/97	3	APCL	<0.0001	<0.0006	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0001
J02-TP02-1-S	TP02	2/27/97	5	APCL	<0.0001	<0.0008	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0001
J02-TP02-2-S	TP02	2/27/97	1	APCL	<0.0001	<0.0005	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0001
J02-TP03-1-S	TP03	2/27/97	5	APCL	<0.0001	<0.0006	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0001
J02-TP03-2-S	TP03	2/27/97	1.5	APCL	<0.0001	<0.0005	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0001
J02-TR01-1-S	TR01	2/27/97	6	APCL	<0.0001	<0.0005	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0001
J02-TR01-2-S	TR01	2/27/97	6	APCL	<0.0001	<0.0005	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0001
J02-TR01-3-S	TR01	2/27/97	11.5	APCL	<0.0001	<0.0005	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0001
J02-TR01-4-S	TR01	2/27/97	6	APCL	<0.0001	<0.0005	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0001
J02-TR01-5-S	TR02	2/27/97	13	APCL	<0.0001	<0.0007	<0.0001	<0.0003	<0.0003	<0.0001	<0.0003	<0.0001
J02-TR02-1-S	TR02	2/27/97	5	APCL	<0.0001	<0.0006	<0.0001	<0.0003	<0.0003	<0.0001	<0.0003	<0.0001
J02-TR02-2-S	TR02	2/27/97	5	APCL	<0.0001	<0.0006	<0.0001	<0.0003	<0.0003	<0.0001	<0.0003	<0.0001
					14	14	14	14	14	14	14	14
Analyses												
Detections					0	0	0	0	0	0	0	0
Minimum Concentration					0	0	0	0	0	0	0	0
Maximum Concentration					0	0	0	0	0	0	0	0
HWAD - PCG					NE	0.008	7200	NE	NE	NE	150	NE
HWAD - PCG Hits					NE	0	0	NE	NE	NE	0	NE

Notes:
NA = Not analyzed.
NE = Not established.

VOCs
Method 8260A (APCL)

Sample ID	Location ID	Depth (feet)	Lab	Benzene												
				mg/kg												
J02-TP01-1-S	TP01	2/26/97	5	APCL	<0.0001	<0.0002	<0.0001	<0.0006	<0.0002	<0.0003	<0.0003	<0.0001	<0.0001	<0.0001	<0.0001	
J02-TP01-2-S	TP01	2/26/97	3	APCL	<0.0001	<0.0002	<0.0001	<0.0006	<0.0002	<0.0003	<0.0003	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
J02-TP01-3-S	TP01	2/26/97	3	APCL	<0.0001	<0.0002	<0.0001	<0.0006	<0.0002	<0.0003	<0.0003	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
J02-TP02-1-S	TP02	2/27/97	5	APCL	<0.0001	<0.0002	<0.0001	<0.0006	<0.0002	<0.0003	<0.0003	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
J02-TP02-2-S	TP02	2/27/97	1	APCL	<0.0001	<0.0002	<0.0001	<0.0005	<0.0002	<0.0003	<0.0003	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
J02-TP03-1-S	TP03	2/27/97	5	APCL	<0.0001	<0.0002	<0.0001	<0.0006	<0.0002	<0.0003	<0.0003	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
J02-TP03-2-S	TP03	2/27/97	1.5	APCL	<0.0001	<0.0002	<0.0001	<0.0005	<0.0002	<0.0003	<0.0003	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
J02-TR01-1-S	TR01	2/27/97	6	APCL	<0.0001	<0.0002	<0.0001	<0.0005	<0.0002	<0.0003	<0.0003	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
J02-TR01-2-S	TR01	2/27/97	6	APCL	<0.0001	<0.0002	<0.0001	<0.0005	<0.0002	<0.0003	<0.0003	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
J02-TR01-3-S	TR01	2/27/97	11.5	APCL	<0.0001	<0.0002	<0.0001	<0.0005	<0.0002	<0.0003	<0.0003	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
J02-TR01-4-S	TR01	2/27/97	6	APCL	<0.0001	<0.0002	<0.0001	<0.0005	<0.0002	<0.0003	<0.0003	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
J02-TR01-5-S	TR01	2/27/97	13	APCL	<0.0001	<0.0002	<0.0001	<0.0006	<0.0002	<0.0004	<0.0004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
J02-TR02-1-S	TR02	2/27/97	5	APCL	<0.0001	<0.0003	<0.0003	<0.0006	<0.0003	<0.0004	<0.0004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
J02-TR02-2-S	TR02	2/27/97	5	APCL	<0.0001	<0.0003	<0.0003	<0.0006	<0.0003	<0.0004	<0.0004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Analyses				14	14	14	14	14	14	14	14	14	14	14	14	
Detections				0	0	0	0	0	0	0	0	0	0	0	0	
Minimum Concentration				0	0	0	0	0	0	0	0	0	0	0	0	
Maximum Concentration				NE	NE	NE	NE	10	NE	NE	NE	89	112	10	0	
HWAD - PCG				NE	NE	NE	NE	0	NE	NE	NE	0	0	0	0	

Notes:
NA = Not analyzed.
NE = Not established.

VOCs
Method 8260A (APCL)

Sample ID	Location ID	Date	Depth (feet)	Lab	mg/kg	Chloroform	Chloroethane	Cis-1,2-Dichloroethene	Cis-1,3-Dichloropropene	Dibromoethane	Dibromochloropropane	Dibromomethane	Dichlorodifluoromethane
J02-TP01-1-S	TP01	2/26/97	5	APCL	<0.0002	<0.0008	<0.0002	<0.0003	<0.0002	<0.001	<0.0002	<0.0006	<0.0002
J02-TP01-2-S	TP01	2/26/97	3	APCL	<0.0002	<0.0008	<0.0002	<0.0003	<0.0002	<0.001	<0.0002	<0.0006	<0.0002
J02-TP01-3-S	TP01	2/26/97	3	APCL	<0.0002	<0.0008	<0.0002	<0.0003	<0.0002	<0.001	<0.0002	<0.0006	<0.0002
J02-TP02-1-S	TP02	2/27/97	5	APCL	<0.0002	<0.0006	<0.0002	<0.0003	<0.0002	<0.0002	<0.0002	<0.0005	<0.0002
J02-TP02-2-S	TP02	2/27/97	1	APCL	<0.0002	<0.0007	<0.0002	<0.0003	<0.0002	<0.001	<0.0002	<0.0006	<0.0002
J02-TP03-1-S	TP03	2/27/97	5	APCL	<0.0002	<0.0008	<0.0002	<0.0004	<0.0002	<0.0001	<0.0002	<0.0005	<0.0002
J02-TP03-2-S	TP03	2/27/97	1.5	APCL	<0.0002	<0.0007	<0.0002	<0.0003	<0.0002	<0.0001	<0.0002	<0.0005	<0.0002
J02-TR01-1-S	TR01	2/27/97	6	APCL	<0.0002	<0.0007	<0.0002	<0.0003	<0.0002	<0.0001	<0.0002	<0.0005	<0.0002
J02-TR01-2-S	TR01	2/27/97	6	APCL	<0.0002	<0.0007	<0.0002	<0.0003	<0.0002	<0.0001	<0.0002	<0.0005	<0.0002
J02-TR01-3-S	TR01	2/27/97	11.5	APCL	<0.0002	<0.0007	<0.0002	<0.0003	<0.0002	<0.0001	<0.0002	<0.0005	<0.0002
J02-TR01-4-S	TR01	2/27/97	6	APCL	<0.0002	<0.0007	<0.0002	<0.0003	<0.0002	<0.0001	<0.0002	<0.0005	<0.0002
J02-TR01-5-S	TR01	2/27/97	13	APCL	<0.0002	<0.0007	<0.0002	<0.0003	<0.0004	<0.0001	<0.0002	<0.0007	<0.0003
J02-TR02-1-S	TR02	2/27/97	5	APCL	<0.0003	<0.0003	<0.0009	<0.0003	<0.0004	<0.0001	<0.0003	<0.0006	<0.0003
J02-TR02-2-S	TR02	2/27/97	5	APCL	<0.0003	<0.0009							
					14	14	14	14	14	14	14	14	14
Analyses					0	0	0	0	0	0	0	0	0
Detections					0	0	0	0	0	0	0	0	0
Minimum Concentration					0	0	0	0	0	0	0	0	0
Maximum Concentration					2000	NE	120	538	NE	83	NE	800	16000
HWAD - PCG					0	NE	0	0	NE	0	NE	0	0
HWAD - PCG Hits													

Notes:
NA = Not analyzed.
NE = Not established.

VOCs
Method 8260A (APC1)

Sample ID	Location ID	Date	Depth (feet)	T _g		mg/kg									
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
J02-TP01-1-S	TP01	2/26/97	5	APCL	<0.0001	<0.0002	<0.0006	<0.0008	<0.0002	<0.0002	<0.0001	<0.0002	<0.0001	<0.0001	
J02-TP01-2-S	TP01	2/26/97	3	APCL	<0.0001	<0.0002	<0.0006	<0.0008	<0.0002	<0.0002	<0.0001	<0.0002	<0.0001	<0.0001	
J02-TP01-3-S	TP01	2/26/97	3	APCL	<0.0001	<0.0002	<0.0006	<0.0008	<0.0002	<0.0002	<0.0001	<0.0002	<0.0001	<0.0001	
J02-TP02-1-S	TP02	2/27/97	5	APCL	<0.0001	<0.0002	<0.0006	<0.0008	<0.0002	<0.0002	<0.0001	<0.0002	<0.0001	<0.0001	
J02-TP02-1-S	TP02	2/27/97	1	APCL	<0.0001	<0.0002	<0.0006	<0.0008	<0.0002	<0.0002	<0.0001	<0.0002	<0.0001	<0.0001	
J02-TP02-2-S	TP03	2/27/97	5	APCL	<0.0001	<0.0002	<0.0006	<0.0008	<0.0002	<0.0002	<0.0001	<0.0002	<0.0001	<0.0001	
J02-TP03-1-S	TP03	2/27/97	1.5	APCL	<0.0001	<0.0002	<0.0006	<0.0008	<0.0002	<0.0002	<0.0001	<0.0002	<0.0001	<0.0001	
J02-TP03-2-S	TP03	2/27/97	1.5	APCL	<0.0001	<0.0002	<0.0006	<0.0008	<0.0002	<0.0002	<0.0001	<0.0002	<0.0001	<0.0001	
J02-TR01-1-S	TR01	2/27/97	6	APCL	<0.0001	<0.0002	<0.0006	<0.0008	<0.0002	<0.0002	<0.0001	<0.0002	<0.0001	<0.0001	
J02-TR01-1-S	TR01	2/27/97	6	APCL	<0.0001	<0.0002	<0.0006	<0.0008	<0.0002	<0.0002	<0.0001	<0.0002	<0.0001	<0.0001	
J02-TR01-2-S	TR01	2/27/97	11.5	APCL	<0.0001	<0.0002	<0.0006	<0.0008	<0.0002	<0.0002	<0.0001	<0.0002	<0.0001	<0.0001	
J02-TR01-3-S	TR01	2/27/97	6	APCL	<0.0001	<0.0002	<0.0006	<0.0008	<0.0002	<0.0002	<0.0001	<0.0002	<0.0001	<0.0001	
J02-TR01-4-S	TR01	2/27/97	13	APCL	<0.0001	<0.0002	<0.0006	<0.0008	<0.0002	<0.0002	<0.0001	<0.0002	<0.0001	<0.0001	
J02-TR01-5-S	TR02	2/27/97	5	APCL	<0.0001	<0.0003	<0.0006	<0.0009	<0.0003	<0.0003	<0.0001	<0.0003	<0.0001	<0.0001	
J02-TR02-1-S	TR02	2/27/97	5	APCL	<0.0001	<0.0003	<0.0006	<0.0009	<0.0003	<0.0003	<0.0001	<0.0003	<0.0001	<0.0001	
J02-TR02-2-S															
Analyses				14	14	14	14	14	14	14	14	14	14	14	
Detections				0	0	0	0	0	0	0	0	0	0	0	
Minimum Concentration				0	0	0	0	0	0	0	0	0	0	0	
Maximum Concentration				0	0	0	0	0	0	0	0	0	0	0	
HWAD - PCG				8000	NE	NE	160000	4800	NE	NE	NE	NE	3200	160000	
HWAD - PCG Hits				0	NE	NE	0	0	NE	NE	0	0	0	0	

Notes:
NA = Not analyzed.
NE = Not established.

VOCs
Method 8260A (APCI)

Sample ID	Location ID	Sample Date	Depth (feet)	Lab	Styrene	tert-Butylbenzene	Tetrachloroethylene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichlorofluoromethane	Vinyl chloride
J02-TP01-1-S	TP01	2/26/97	5	APCL	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0002	<0.0002	<0.0002
J02-TP01-2-S	TP01	2/26/97	3	APCL	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0002	<0.0002	<0.0002
J02-TP01-3-S	TP01	2/26/97	3	APCL	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0002	<0.0002	<0.0002
J02-TP02-1-S	TP02	2/27/97	5	APCL	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0002	<0.0002	<0.0002
J02-TP02-2-S	TP02	2/27/97	1	APCL	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0002	<0.0002	<0.0002
J02-TP03-1-S	TP03	2/27/97	5	APCL	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0002	<0.0002	<0.0002
J02-TP03-2-S	TP03	2/27/97	1.5	APCL	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0002	<0.0002	<0.0002
J02-TR01-1-S	TR01	2/27/97	6	APCL	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0002	<0.0002	<0.0002
J02-TR01-2-S	TR01	2/27/97	6	APCL	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0002	<0.0002	<0.0002
J02-TR01-3-S	TR01	2/27/97	11.5	APCL	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0002	<0.0002	<0.0002
J02-TR01-4-S	TR01	2/27/97	6	APCL	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0002	<0.0002	<0.0002
J02-TR01-5-S	TR02	2/27/97	13	APCL	<0.0001	<0.0001	<0.0003	<0.0001	<0.0003	<0.0003	<0.0003	<0.0003
J02-TR02-1-S	TR02	2/27/97	5	APCL	<0.0001	<0.0001	<0.0003	<0.0001	<0.0003	<0.0003	<0.0003	<0.0003
J02-TR02-2-S	TR02	2/27/97	5	APCL	<0.0001	<0.0001	<0.0003	<0.0001	<0.0003	<0.0003	<0.0003	<0.0003
					14	14	14	14	14	14	14	14
Analyses					0	0	0	0	0	0	0	0
Detections					0	0	0	0	0	0	0	0
Minimum Concentration					0	0	0	0	0	0	0	0
Maximum Concentration					NE	NE	NE	NE	NE	NE	NE	NE
HWAD - PCG					NE	NE	NE	NE	NE	NE	NE	NE
HWAD - PCG Hits					NE	NE	NE	NE	NE	NE	NE	NE

Notes:
NA = Not analyzed.
NE = Not established.

Explosives
Method 8330 (Datachem)

Sample ID	Location ID	Sample Date (feet)	Depth (feet)	Lab	mg/kg	Tetryl	RDX	HMX	Nitrobenzene	4-Nitrotoluene	3-Nitrotoluene	2-Nitrotoluene	2,6-Dinitrotoluene	2,4-Dinitrotoluene	2,4,6-Tinitrotoluene	1,3-Dinitrobenzene	1,3,5-Tinitrobenzene								
J02-DP134	HA09	7/23/94	2	Datachem	<0.09	<0.04	<0.19	<0.17	<0.46	<0.39	<0.74	<0.21	<0.09	<0.34	<0.19										
J02-DP269	SB01	8/21/94	8.25	Datachem	<0.09	<0.04	<0.19	<0.17	<0.46	<0.39	<0.74	<0.21	<0.09	<0.34	<0.19										

Analyses:
Detections
Minimum Concentration
Maximum Concentration
HWAD - PCG
HWAD - PCG Hits

Notes:
NA = Not analyzed.
NE = Not established.

Explosives
Method 8330 (APCL)

Sample ID	Location ID	Sample Date (feet)	Lab ^a	HMX						
				1,3,5-Tinitrobenzene	2,4,6-Tinitrotoluene	2,4-Dinitrotoluene	2,6-Dinitrotoluene	2-Nitrotoluene	3-Nitrotoluene	4-Nitrotoluene
J02-TP01-1-S	TP01	2/26/97	5	APCL	<0.015	<0.029	<0.046	<0.03	<0.065	<0.083
J02-TP01-2-S	TP01	2/26/97	3	APCL	<0.015	<0.029	<0.046	<0.03	<0.065	<0.083
J02-TP01-3-S	TP01	2/26/97	3	APCL	<0.015	<0.028	<0.045	<0.029	<0.063	<0.08
J02-TP02-1-S	TP02	2/27/97	5	APCL	<0.014	<0.028	<0.044	<0.029	<0.062	<0.079
J02-TP02-2-S	TP02	2/27/97	1	APCL	<0.014	<0.026	<0.042	<0.027	<0.059	<0.076
J02-TP03-1-S	TP03	2/27/97	5	APCL	<0.015	<0.029	<0.047	<0.03	<0.065	<0.084
J02-TP03-2-S	TP03	2/27/97	1.5	APCL	<0.013	<0.026	<0.041	<0.027	<0.058	<0.074
J02-TR01-1-S	TR01	2/27/97	6	APCL	<0.013	<0.026	<0.041	<0.027	<0.057	<0.074
J02-TR01-2-S	TR01	2/27/97	6	APCL	<0.013	<0.026	<0.041	<0.027	<0.057	<0.074
J02-TR01-3-S	TR01	2/27/97	11.5	APCL	<0.013	<0.025	<0.041	<0.026	<0.057	<0.073
J02-TR01-4-S	TR01	2/27/97	6	APCL	<0.013	<0.026	<0.041	<0.027	<0.058	<0.074
J02-TR01-5-S	TR01	2/27/97	13	APCL	<0.013	<0.026	<0.041	<0.027	<0.058	<0.074
J02-TR02-1-S	TR02	2/27/97	5	APCL	<0.018	<0.035	<0.057	<0.037	<0.079	<0.1
J02-TR02-2-S	TR02	2/27/97	5	APCL	<0.017	<0.032	<0.051	<0.033	<0.072	<0.092
				14	14	14	14	14	14	14
Analyses				0	0	0	0	0	0	0
Detections				0	0	0	0	0	0	0
Minimum Concentration				0	0	0	0	0	0	0
Maximum Concentration				0	0	0	0	0	0	0
HWAD - PCG				4	8	233	2.6	80	800	800
HWAD - PCG Hits				0	0	0	0	0	0	0

Notes:
NA = Not analyzed.
NE = Not established.

Explosives
Method 8330 (APCL)

Sample ID	Location ID	Date (feet)	Sample Depth g	Nitrobenzene		Tetryl		4-Amino-2,6-dinitrotoluene	
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
J02-TP01-1-S	TP01	2/26/97	5	APCL	<0.064	<0.058	<0.052	NA	NA
J02-TP01-2-S	TP01	2/26/97	3	APCL	<0.064	<0.058	<0.052	NA	NA
J02-TP01-3-S	TP01	2/26/97	3	APCL	<0.061	<0.056	<0.05	NA	NA
J02-TP02-1-S	TP02	2/27/97	5	APCL	<0.061	<0.055	<0.05	NA	NA
J02-TP02-2-S	TP02	2/27/97	1	APCL	<0.058	<0.053	<0.048	NA	NA
J02-TP03-1-S	TP03	2/27/97	5	APCL	<0.064	<0.058	<0.053	NA	NA
J02-TP03-2-S	TP03	2/27/97	1.5	APCL	<0.057	<0.052	<0.046	NA	NA
J02-TR01-1-S	TR01	2/27/97	6	APCL	<0.056	<0.051	<0.046	NA	NA
J02-TR01-2-S	TR01	2/27/97	6	APCL	<0.056	<0.051	<0.046	NA	NA
J02-TR01-3-S	TR01	2/27/97	11.5	APCL	<0.056	<0.051	<0.046	NA	NA
J02-TR01-4-S	TR01	2/27/97	6	APCL	<0.057	<0.052	<0.047	NA	NA
J02-TR01-5-S	TR01	2/27/97	13	APCL	<0.057	<0.052	<0.046	NA	NA
J02-TR02-1-S	TR02	2/27/97	5	APCL	<0.078	<0.071	<0.064	NA	NA
J02-TR02-2-S	TR02	2/27/97	5	APCL	<0.07	<0.064	<0.057	NA	NA
				14	14	14	0	0	0
				0	0	0	0	0	0
				0	0	0	0	0	0
				0	0	0	0	0	0
				40	64	800	NE	NE	NE
				0	0	0	NE	NE	NE

Notes:
NA = Not analyzed.
NE = Not established.

Explosives
Method 8330M (APCL)

Sample ID	Location ID	Date	Sample Depth (feet)	Lab	Picric Acid mg/kg
J02-TP01-1-S	TP01	2/26/97	5	APCL	<0.79
J02-TP01-2-S	TP01	2/26/97	3	APCL	<0.79
J02-TP01-3-S	TP01	2/26/97	3	APCL	<0.76
J02-TP02-1-S	TP02	2/27/97	5	APCL	<0.75
J02-TP02-2-S	TP02	2/27/97	1	APCL	<0.72
J02-TP03-1-S	TP03	2/27/97	5	APCL	<0.8
J02-TP03-2-S	TP03	2/27/97	1.5	APCL	<0.7
J02-TR01-1-S	TR01	2/27/97	6	APCL	<0.7
J02-TR01-2-S	TR01	2/27/97	6	APCL	<0.7
J02-TR01-3-S	TR01	2/27/97	11.5	APCL	<0.69
J02-TR01-4-S	TR01	2/27/97	6	APCL	<0.7
J02-TR01-5-S	TR01	2/27/97	13	APCL	<0.7
J02-TR02-1-S	TR02	2/27/97	5	APCL	<0.96
J02-TR02-2-S	TR02	2/27/97	5	APCL	<0.87
<hr/>					
Analyses					14
Detections					0
Minimum Concentration					0
Maximum Concentration					0
<hr/>					
HWAD - PCG					NE
HWAD - PCG Hits					NE

Notes:

NA = Not analyzed.

NE = Not established.

RDX Test Kit
Method 8510 (Tt Field)

Sample ID	Location ID	Date	Depth (feet)	Lab	RDX	RDX-Dup	RDX (Rerun)
					mg/kg	mg/kg	mg/kg
J02-TP01-1-S	TP01	2/26/97	5	Tt Field	X < 0.8	NA	NA
J02-TP01-2-S	TP01	2/26/97	3	Tt Field	2.13	NA	NA
J02-TP01-3-S	TP01	2/26/97	3	Tt Field	1.38	NA	NA
Analyses					3	0	0
Detections					2	0	0
Minimum Concentration					1.38	0	0
Maximum Concentration					2.13	0	0
HWAD - PCG					64	64	64
HWAD - PCG Hits					0	0	0

Notes:

NA = Not analyzed.

NE = Not established.

TNT Test Kit
Method 8515 (Tt Field)

Sample ID	Location ID	Date	Depth (feet)	Lab			
					mg/kg	mg/kg	mg/kg
J02-TP01-1-S	TP01	2/26/97	5	Tt Field	< 0.8	NA	NA
J02-TP01-2-S	TP01	2/26/97	3	Tt Field	< 0.8	NA	NA
J02-TP01-3-S	TP01	2/26/97	3	Tt Field	< 0.8	NA	NA
J02-TR01-1-S	TR01	2/27/97	6	Tt Field	< 0.8	NA	NA
J02-TR01-2-S	TR01	2/27/97	6	Tt Field	< 0.8	NA	NA
J02-TR01-3-S	TR01	2/27/97	11.5	Tt Field	< 0.8	NA	NA
J02-TR01-4-S	TR01	2/27/97	6	Tt Field	< 0.8	NA	NA
J02-TR01-5-S	TR01	2/27/97	13	Tt Field	< 0.8	NA	NA
J02-TR02-1-S	TR02	2/27/97	5	Tt Field	< 0.8	NA	NA
J02-TR02-2-S	TR02	2/27/97	5	Tt Field	< 0.8	NA	NA
<hr/>							
Analyses					10	0	0
Detections					0	0	0
Minimum Concentration					0	0	0
Maximum Concentration					0	0	0
<hr/>							
HWAD - PCG					233	233	233
HWAD - PCG Hits					0	0	0

Notes:

NA = Not analyzed.

NE = Not established.

pH
Method 9045B (APCL)

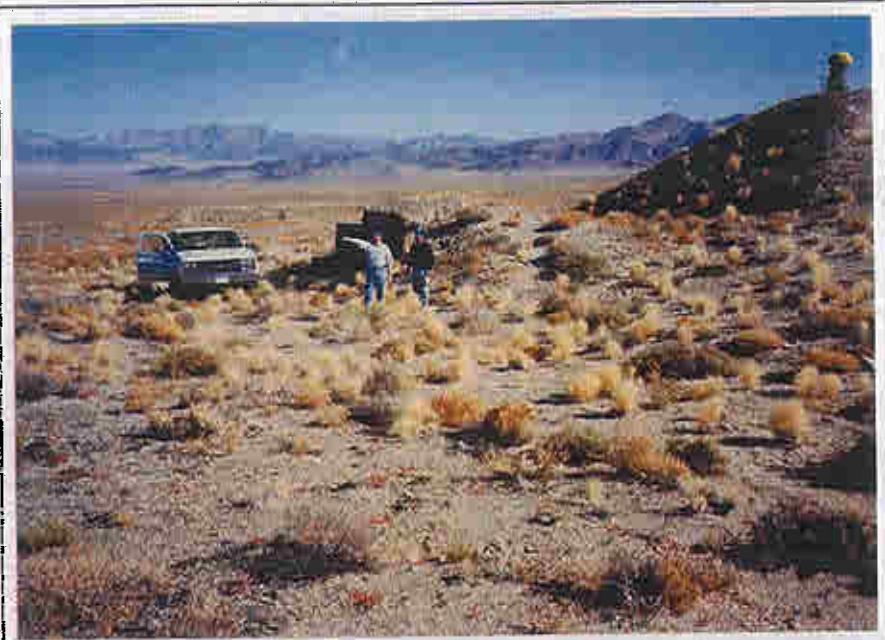
Sample ID	Location ID	Date	Depth (feet)	Lab	pH
					pH unit
J02-TP01-1-S	TP01	2/26/97	5	APCL	8.74
J02-TP01-2-S	TP01	2/26/97	3	APCL	8.81
J02-TP01-3-S	TP01	2/26/97	3	APCL	8.73
J02-TP02-1-S	TP02	2/27/97	5	APCL	8.05
J02-TP02-2-S	TP02	2/27/97	1	APCL	8.16
J02-TP03-1-S	TP03	2/27/97	5	APCL	8.27
J02-TP03-2-S	TP03	2/27/97	1.5	APCL	7.46
J02-TR01-1-S	TR01	2/27/97	6	APCL	7.62
J02-TR01-2-S	TR01	2/27/97	6	APCL	7.63
J02-TR01-3-S	TR01	2/27/97	11.5	APCL	8.25
J02-TR01-4-S	TR01	2/27/97	6	APCL	7.49
J02-TR01-5-S	TR01	2/27/97	13	APCL	7.35
J02-TR02-1-S	TR02	2/27/97	5	APCL	8.25
J02-TR02-2-S	TR02	2/27/97	5	APCL	8.47
<hr/>					
Analyses					14
Detections					14
Minimum Concentration					7.35
Maximum Concentration					8.81
<hr/>					
HWAD - PCG					NE
HWAD - PCG Hits					NE

Notes:

NA = Not analyzed.

NE = Not established.

Appendix D



I-5, View toward northeast from upper end of gully, looking down SWMU.
#R4-P27, 11/4/93



SWMU I-05

Photograph taken September 1999